

Claims

[c1] What is claimed is:

1. A display device for a computer system comprising:
 - a screen for displaying a color picture image for a user in front of the screen, the color picture image formed by light emitted from at least two light sources of different colors;
 - at least one sensor for detecting light around the screen and generating a corresponding detecting signal;
 - a gray level adjusting device for adjusting brightness of light emitted by the light sources according to the detecting signal so as to reduce an impact of around the screen to the color picture image on the screen; and
 - a controller for controlling operations of the display device.

[c2] 2. The display device of claim 1 wherein the sensor is disposed at a front side of the display device for sensing light emitted toward the screen.

[c3] 3. The display device of claim 1 wherein the gray level adjusting device adjusts the brightness of the light emitted by the light sources so as to generate an expected picture image.

[c4] 4. The display device of claim 1 wherein the controller is a display card of the computer system.

[c5] 5. The display device of claim 1 wherein the computer system is a portable computer, and the display device is a liquid crystal display installed on the portable computer.

[c6] 6. A display device for a computer system comprising:

- a screen for displaying a picture image for a user in front of the screen;
- at least one sensor for detecting light emitted to a sensing surface of the sensor and generating a corresponding detecting signal; and
- a controller for adjusting the picture image displayed on the screen according to the detecting signal;

wherein the sensing surface of the sensor faces backwards so as to detect light emitted from the back of the display device.

- [c7] 7.The display device of claim 6 wherein the sensor is capable of detecting a brightness of light emitted to the sensing surface.
- [c8] 8.The display device of claim 6 wherein the sensor is capable of detecting a color of light emitted to the sensing surface.
- [c9] 9.The display device of claim 7 wherein the controller adjusts a brightness of the picture image according to the detecting signal.
- [c10] 10.The display device of claim 9 wherein when the brightness of light detected by the sensor is greater than a predetermined value, the controller will correspondingly increase the brightness of the picture image.
- [c11] 11.The display device of claim 8 wherein the controller adjusts a color of the picture image according to the detecting signal.
- [c12] 12.The display device of claim 11 wherein the controller adjusts the color of the picture image so as to generate an expected picture image.
- [c13] 13.The display device of claim 6 wherein the controller is a display card of the computer system.
- [c14] 14.The display device of claim 6 wherein the computer system is a portable computer, and the display device is a liquid crystal display installed on the portable computer.